

Title (en)

SECURITY PROTOCOLS FOR UNIFIED NEAR FIELD COMMUNICATION INFRASTRUCTURES

Title (de)

SICHERHEITSPROTOKOLLE FÜR EINHEITLICHEN NAHFELDKOMMUNIKATIONSINFRASTRUKTUREN

Title (fr)

PROTOCOLES DE SÉCURITÉ POUR DES INFRASTRUCTURES DE COMMUNICATION EN CHAMP PROCHE UNIFIÉES

Publication

EP 3254225 A1 20171213 (EN)

Application

EP 16701087 A 20160107

Priority

- US 201514613169 A 20150203
- US 2016012515 W 20160107

Abstract (en)

[origin: US2016227348A1] One feature pertains to a near field communication (NFC) target device comprising a memory circuit adapted to store sensitive data, an NFC interface adapted to transmit and receive information using NFC protocols, and a processing circuit. The processing circuit receives a plurality of provider identification (PID) numbers from a plurality of providers, where each PID number is associated with a different provider. The processing circuit also stores the PID numbers at the memory circuit, and assigns a privilege mask to each PID number received and stored. The NFC target device may also include a physical unclonable function (PUF) circuit. The processing circuit may additionally provide one or more PID numbers as input challenges to the PUF circuit, and receive one or more PUF output responses from the PUF circuit, where the PUF output responses are different from one another and are associated with different providers.

IPC 8 full level

G06F 21/62 (2013.01); **G06F 21/79** (2013.01); **H04W 4/80** (2018.01); **H04W 12/06** (2009.01); **H04W 12/08** (2009.01)

CPC (source: CN EP US)

G06F 21/445 (2013.01 - EP US); **G06F 21/6218** (2013.01 - EP US); **G06F 21/79** (2013.01 - EP US); **H04L 9/3278** (2013.01 - US); **H04W 4/80** (2018.01 - CN EP US); **H04W 12/08** (2013.01 - CN); **H04W 12/086** (2021.01 - EP US); **H04W 12/37** (2021.01 - EP US); **H04L 63/0853** (2013.01 - CN EP US); **H04L 2209/80** (2013.01 - US); **H04L 2209/805** (2013.01 - CN); **H04W 12/06** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2016126367A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2016227348 A1 20160804; **US 9497573 B2 20161115**; CN 107113553 A 20170829; CN 107113553 B 20181218; EP 3254225 A1 20171213; JP 2018506918 A 20180308; JP 6374119 B2 20180815; WO 2016126367 A1 20160811

DOCDB simple family (application)

US 201514613169 A 20150203; CN 201680005690 A 20160107; EP 16701087 A 20160107; JP 2017540593 A 20160107; US 2016012515 W 20160107